CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/KTR/W.No.14 /2021-22

Date: 15.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer ,Dasarahalli Sub division, BBMP, Bangalore.**

Agency : **M/s K T R Constructions(Prop.K.T.Ravi), Contractor, Mysore.**

Name of the work : Improvements of roads and drains in Bhuvaneshwari Nagara and Other area in Bagalagunte ward no.14, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.02.2022	15.03.2022	8.187	710.7	31.59
2	15.02.2022	15.03.2022	8.194	717.5	31.89
3	15.02.2022	15.03.2022	8.198	714.3	31.75

Note:

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ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಕ. ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಪಿ.ಐ.ಎಂ.ಟಿ
ಬೆಂಗಳೂರು 560073

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.
Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail

CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE/BBMP/KTR/W.No.14 /2021-22

Date: 22.02.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer ,Dasarahalli Sub division, BBMP, Bangalore.**

Agency : **M/s K T R Constructions(Prop.K.T.Ravi), Contractor, Mysore.**

Name of the work : Improvements of roads and drains in Bhuvaneshwari Nagara and Other area in Bagalagunte ward no.14, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.02.2022	22.02.2022	8.130	507.2	22.54
2	15.02.2022	22.02.2022	8.157	499.7	22.21
3	15.02.2022	22.02.2022	8.143	504.5	22.42

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For CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE/BBMP/KTR/W.No.14 /2021-22

Date: 15.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer ,Dasarahalli Sub division, BBMP, Bangalore.**

Agency : **M/s K T R Constructions(Prop.K.T.Ravi), Contractor, Mysore.**

Name of the work : Improvements of roads and drains in Bhuvaneshwari Nagara and Other area in Bagalagunte ward no.14, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.02.2022	15.03.2022	8.169	714.7	31.76
2	15.02.2022	15.03.2022	8.176	721.1	32.05
3	15.02.2022	15.03.2022	8.182	723.9	32.17

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Job No.: CACE/BBMP/KTR/W.No.14 /2021-22

Date: 24.02.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer ,Dasarahalli Sub division, BBMP, Bangalore.**
Agency	**: M/s K T R Constructions(Prop.K.T.Ravi), Contractor, Mysore.**
Name of the work	: Improvements of roads and drains in Bhuvaneshwari Nagara and Other area in Bagalagunte ward no.14, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.02.2022	24.02.2022	8.133	498.5	22.16
2	17.02.2022	24.02.2022	8.149	502.1	22.32
3	17.02.2022	24.02.2022	8.142	506.3	22.50

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Job No.: CACE/BBMP/KTR/W.No.14 /2021-22 Date: 17.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer ,Dasarahalli Sub division, BBMP, Bangalore.**

Agency : **M/s K T R Constructions(Prop.K.T.Ravi), Contractor, Mysore.**

Name of the work : Improvements of roads and drains in Bhuvaneshwari Nagara and Other area in Bagalagunte ward no.14, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.02.2022	17.03.2022	8.154	701.5	31.18
2	17.02.2022	17.03.2022	8.167	708.3	31.48
3	17.02.2022	17.03.2022	8.172	712.1	31.65

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Date: 24.02.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer ,Dasarahalli Sub division, BBMP, Bangalore.**
Agency	**: M/s K T R Constructions(Prop.K.T.Ravi), Contractor, Mysore.**
Name of the work	: Improvements of roads and drains in Bhuvaneshwari Nagara and Other area in Bagalagunte ward no.14, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.02.2022	24.02.2022	8.158	521.8	23.19
2	17.02.2022	24.02.2022	8.161	519.3	23.08
3	17.02.2022	24.02.2022	8.167	506.4	22.51

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer ,Dasarahalli Sub division, BBMP, Bangalore.**

Agency : **M/s K T R Constructions(Prop.K.T.Ravi), Contractor, Mysore.**

Name of the work : Improvements of roads and drains in Bhuvaneshwari Nagara and Other area in Bagalagunte ward no.14, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.02.2022	17.03.2022	8.154	705.2	31.34
2	17.02.2022	17.03.2022	8.159	708.7	31.50
3	17.02.2022	17.03.2022	8.161	714.5	31.76

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Date: 24.02.2022

Job No.: CACE/BBMP/KTR/W.No.14 /2021-22

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer ,Dasarahalli Sub division, BBMP, Bangalore.**

Agency : **M/s K T R Constructions(Prop.K.T.Ravi), Contractor, Mysore.**

Name of the work : Improvements of roads and drains in Bhuvaneshwari Nagara and Other area in Bagalagunte ward no.14, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.02.2022	24.02.2022	8.145	502.7	22.34
2	17.02.2022	24.02.2022	8.137	499.1	22.18
3	17.02.2022	24.02.2022	8.139	486.7	21.63

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Job No.: CACE/BBMP/KTR/W.No.14 /2021-22

Date: 17.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: Assistant Executive Engineer ,Dasarahalli Sub division, BBMP, Bangalore.
Agency	: M/s K T R Constructions(Prop.K.T.Ravi), Contractor, Mysore.
Name of the work	: Improvements of roads and drains in Bhuvaneshwari Nagara and Other area in Bagalagunte ward no.14, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 28th day

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.02.2022	17.03.2022	8.143	702.7	31.23
2	17.02.2022	17.03.2022	8.147	716.9	31.86
3	17.02.2022	17.03.2022	8.151	722.4	32.11

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Job No.: CACE/BBMP/KTR/W.No.14 /2021-22

Date : 20.04.2022

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	Assistant Executive Engineer ,Dasarahalli Sub division, BBMP, Bangalore.
Agency	M/s KTR Constructions(Prop,Sri.K.T.Ravi), Contractor, Mysore.
Name of Work	Improvements of roads and drains in Bhuvaneshwari Nagara and Other area in Bagalagunte ward no.14, BBMP, Bangalore.
BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	20.04.2022

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	12.40	12.50	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	13.10	13.70	
	Combined Flakiness & Elongation index	25.50	26.20	

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ಬಾಗಲಗುಂಟೆ. ಜಜ.ಎಂ.ಕಿ
ಬೆಂಗಳೂರು-560073

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

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Job No.: CACE/BBMP/KTR/W.No.14 /2021-22 Date : 20.04.2022

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client:	Assistant Executive Engineer ,Dasarahalli Sub division, BBMP, Bangalore.
Agency	M/s KTR Constructions(Prop,Sri.K.T.Ravi), Contractor, Mysore.
Name of Work	Improvements of roads and drains in Bhuvaneshwari Nagara and Other area in Bagalagunte ward no.14, BBMP, Bangalore.
BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	20.04.2022

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	11.80	11.90	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	12.80	12.50	
	Combined Flakiness & Elongation index	24.60	24.40	

Note:

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Job No.: CACE/BBMP/KTR/W.No.14 /2021-22

Date : 20.04.2022

GRADATION FOR WMM

Client : **Assistant Executive Engineer ,Dasarahalli Sub division, BBMP, Bangalore.**

Agency : **M/s KTR Constructions(Prop,Sri.K.T.Ravi), Contractor, Mysore.**

Name of Work : Improvements of roads and drains in Bhuvaneshwari Nagara and Other area in Bagalagunte ward no.14, BBMP, Bangalore.

IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing : 20.04.2022

Material Type : Wet Mix Macadam

Oven Dry.Wt, gran 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	154	154	1.5	98.5	95-100
22.4	2529	2683	26.8	73.2	60-80
11.2	2278	4961	49.6	50.4	40-60
4.75	1869	6830	68.3	31.7	25-40
2.36	1249	8079	80.8	19.2	15-30
0.600	621	8700	87.0	13.0	8-22
0.075	1105	9805	98.1	2.0	0-5

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Job No.: CACE/BBMP/KTR/W.No.14 /2021-22 Date : 20.04.2022

GRADATION FOR WMM

Client : Assistant Executive Engineer ,Dasarahalli Sub division, BBMP, Bangalore.

Agency : M/s KTR Constructions(Prop,Sri.K.T.Ravi), Contractor, Mysore.

Name of Work : Improvements of roads and drains in Bhuvaneshwari Nagara and Other area in Bagalagunte ward no.14, BBMP, Bangalore.

IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing : 20.04.2022

Material Type : Wet Mix Macadam

Oven Dry.Wt, gran 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	169	169	1.7	98.3	95-100
22.4	2431	2600	26.0	74.0	60-80
11.2	2128	4728	47.3	52.7	40-60
4.75	1811	6539	65.4	34.6	25-40
2.36	1132	7671	76.7	23.3	15-30
0.600	635	8306	83.1	16.9	8-22
0.075	1239	9545	95.5	4.6	0-5

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರ
ಕಿ. ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬೆಂಗಳೂರು
ಬೆಂಗಳೂರು-560073

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples collected at the site.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

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CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/KTR/W.No.14 /2021-22

Date : 20.04.2022

GRADATION FOR WMM

Client : **Assistant Executive Engineer ,Dasarahalli Sub division, BBMP, Bangalore.**

Agency : **M/s KTR Constructions(Prop,Sri.K.T.Ravi), Contractor, Mysore.**

Name of Work : Improvements of roads and drains in Bhuvaneshwari Nagara and Other area in Bagalagunte ward no.14, BBMP, Bangalore.

IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing : 20.04.2022

Material Type : Wet Mix Macadam

Oven Dry.Wt, gran 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	179	179	1.8	98.2	95-100
22.4	2579	2758	27.6	72.4	60-80
11.2	2163	4921	49.2	50.8	40-60
4.75	1801	6722	67.2	32.8	25-40
2.36	1129	7851	78.5	21.5	15-30
0.600	633	8484	84.8	15.2	8-22
0.075	1195	9679	96.8	3.2	0-5

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Job No.: CACE/BBMP/KTR/W.No.14 /2021-22

Date: 20.04.2022

Aggregate Impact Value

Client	**Assistant Executive Engineer ,Dasarahalli Sub division, BBMP, Bangalore.**
Agency	**M/s K T R Constructions(Prop.K.T.Ravi), Contractor, Mysore.**
Name of the Work	Improvements of roads and drains in Bhuvaneshwari Nagara and Other area in Bagalagunte ward no.14, BBMP, Bangalore.
IS Code	IS 2386 (Part 4):1963(RA 2011)
Type of Mix	Wet Mix macadam
Date of Testing	20.04.2022

Sl No.	Details	Test No. 1	Test No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	376	383	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	81.5	85	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	294.5	298	
4	Aggregate Impact value = percent fines 100* (W_2/W_1)%	21.68	22.19	**21.93**

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%(As per MORTH Specication table 400.12)

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ಇ ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿ.ಬಿ.ಎಂ.ಪಿ
ಬೆಂಗಳೂರು-560073

Note:

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